

09/880988

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,660,229 B2
DATED : December 9, 2003
INVENTOR(S) : Cantor et al.

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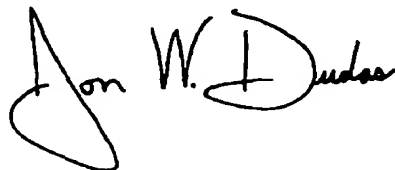
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Drawings.

Please replace Figures 1a-8 with the Formal Figures 1a-8.

Signed and Sealed this

Twelfth Day of October, 2004

A handwritten signature in black ink, reading "Jon W. Dudas". The signature is stylized, with a large loop for the "J" and a cursive "Dudas".

JON W. DUDAS
Director of the United States Patent and Trademark Office

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FIG. 1a

Sequence #1: AGCGTA

Primer 3016 Da	Extension Products	Mass (Da)
—	agcgta	4878.2
—	agcgt	4565.0
—	agcg	4260.8**
—	agc	3931.6
—	ag	3642.4*
—	a	3313.2

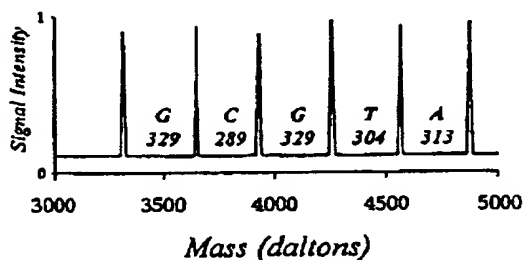


FIG. 1b

Sequence #2: GATCCT

Primer 3016 Da	Extension Products	Mass (Da)
—	gagcct	4854.2
—	gagcc	4550.0
—	gagc	4260.8**
—	gag	3971.6
—	ga	3642.4*
—	g	3329.2

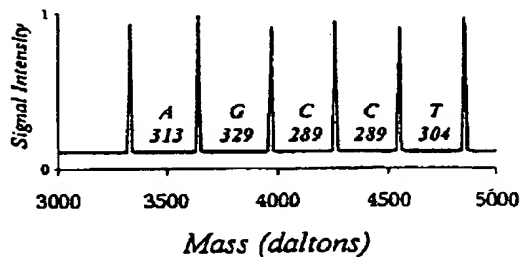


FIG. 1c

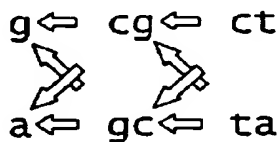
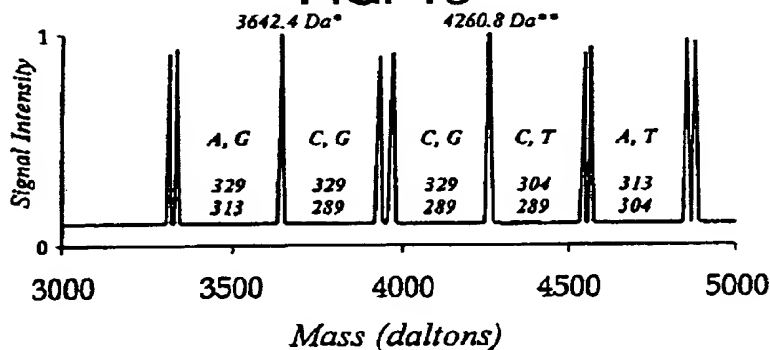


FIG. 1d

gcgct
 GCGTA
 ggcct
 ggcta
 acgct
 acgta
 AGCCT
 agcta

FIG. 1e

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Nucleotide Mass (Da)

dN 310

ddC 273

ddT 288

ddA 297

ddG 313

Sequence #1: GCATGPrimer #1 Extension Mass (Da)
3327 Da Products

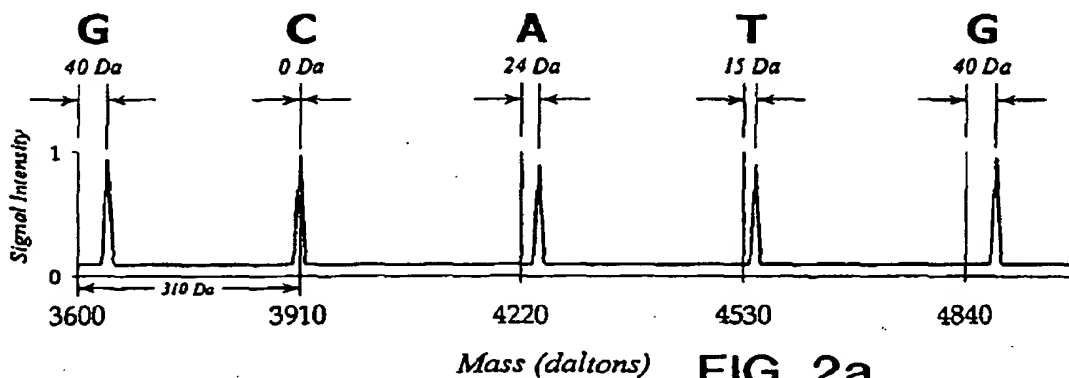
nnng 4880

nnnt 4545

nna 4244

nc 3910

g 3640

Sequence #2: CATGCPrimer #2 Extension Mass (Da)
3404 Da Products

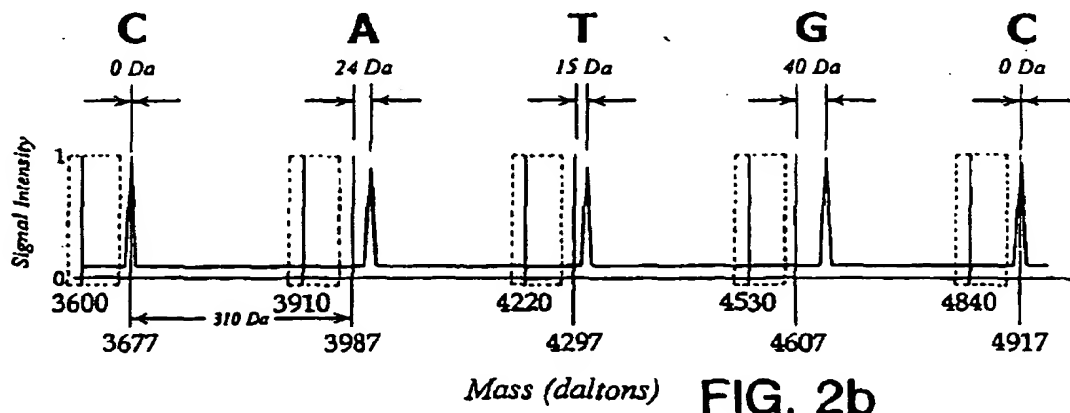
nnnc 4917

nnng 4647

nnt 4312

na 4011

c 3677



Sequence #1: GCATA

Primer #1 3327 Da	Extension Products	Mass (Da)
————	nnnna	4864
————	nnnt	4545
————	nna	4244
————	nc	3910
————	g	3640

Sequence #3: CATGC

Primer #3 3404 Da	Extension Products	Mass (Da)
————	nnnnc	4917
————	nnng	4647
————	nnt	4312
————	na	4011
————	c	3677

Sequence #2: TCAGG

Primer #2 3481 Da	Extension Products	Mass (Da)
————	nnnng	5034
————	nnng	4724
————	nna	4398
————	nc	4064
————	t	3769

Sequence #4: AACTC

Primer #4 3558 Da	Extension Products	Mass (Da)
————	nnnnc	5071
————	nnnt	4776
————	nnc	4451
————	na	4165
————	a	3855

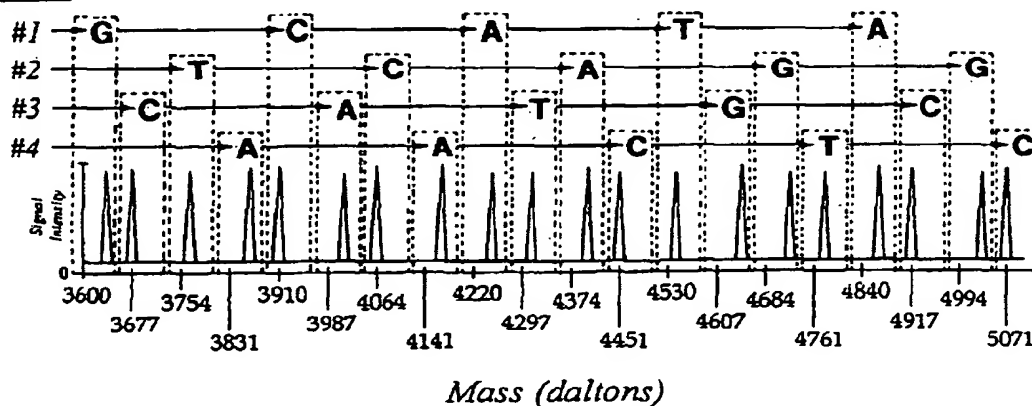
Sequence

FIG. 3

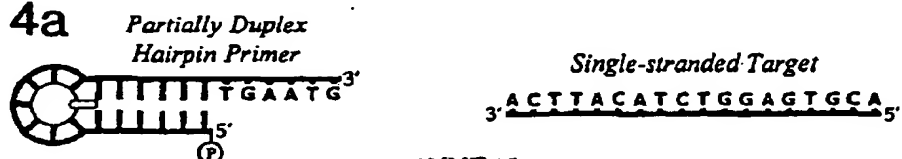
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FIG. 4a



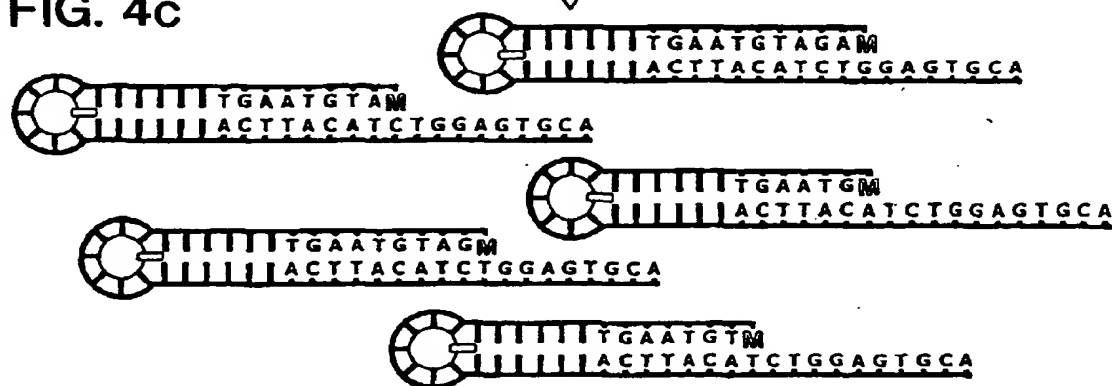
ANNEAL
LIGATE

FIG. 4b



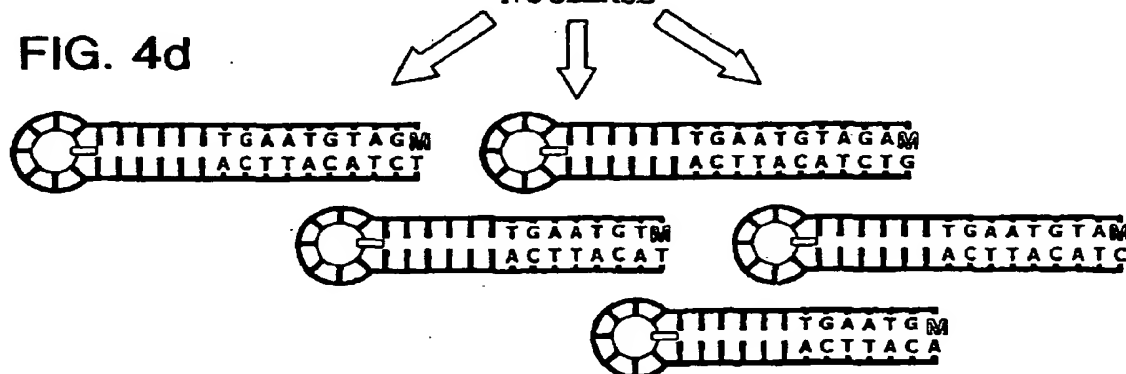
SEQUENCING REACTION
with Mass-matched Terminators (M)

FIG. 4c



SINGLE STRAND-SPECIFIC
NUCLEASE

FIG. 4d



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<i>Reaction Products</i>	<i>Mass (Da)</i>
	12868.6
	12227.2
	11594.8
	10992.4
	10384.0

FIG. 5a

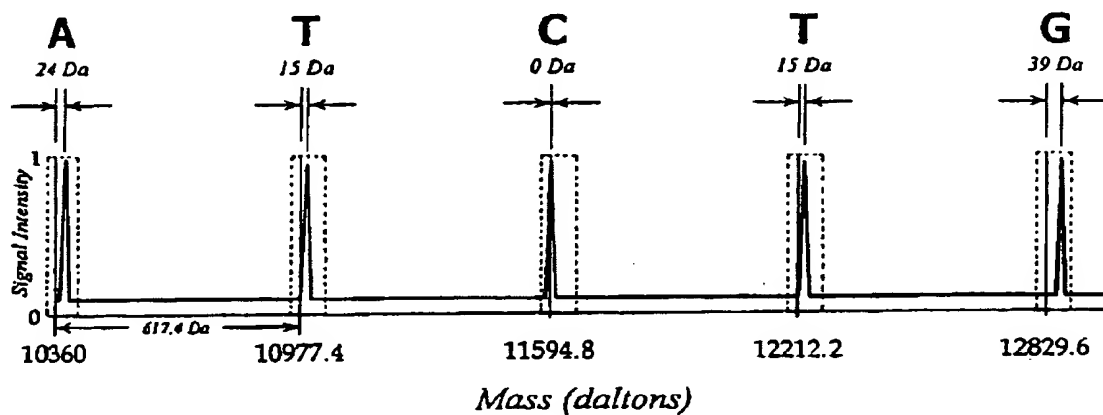


FIG. 5b

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Variant #1: AACTGCAT			Variant #2: AACTTCAT			Variant #3: AAGTGCAT		
Primer	Extension Products	Mass (Da)	Primer	Extension Products	Mass (Da)	Primer	Extension Products	Mass (Da)
3616 Da			3616 Da			3616 Da		
— aactgcat		6054	— aactccat		6029*	— aagtgcac		6094**
— aactgca		5750	— aactcca		5725*	— aagtgcac		5790**
— aactgc		5437	— aactcc		5412*	— aagtgc		5477**
— aactg		5148	— aactc		5123*	— aagtg		5188**
— aact		4819	— aact		4819	— aagt		4859**
— aac		4515	— aac		4515	— aag		4555**
— aa		4226	— aa		4226	— aa		4226
— a		3913	— a		3913	— a		3913

FIG. 6a

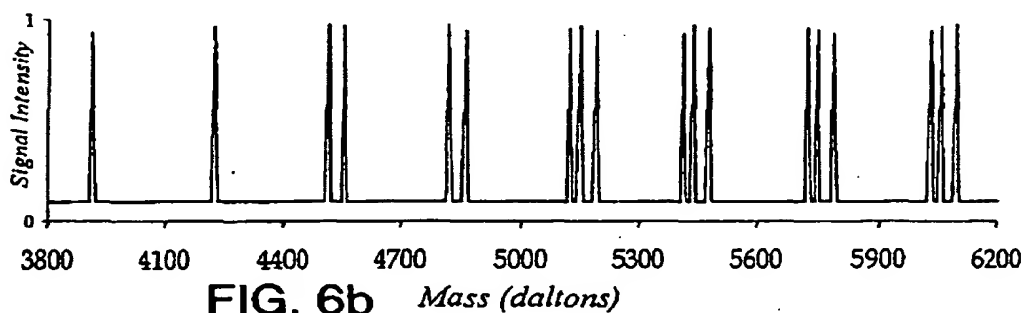


FIG. 6b Mass (daltons)

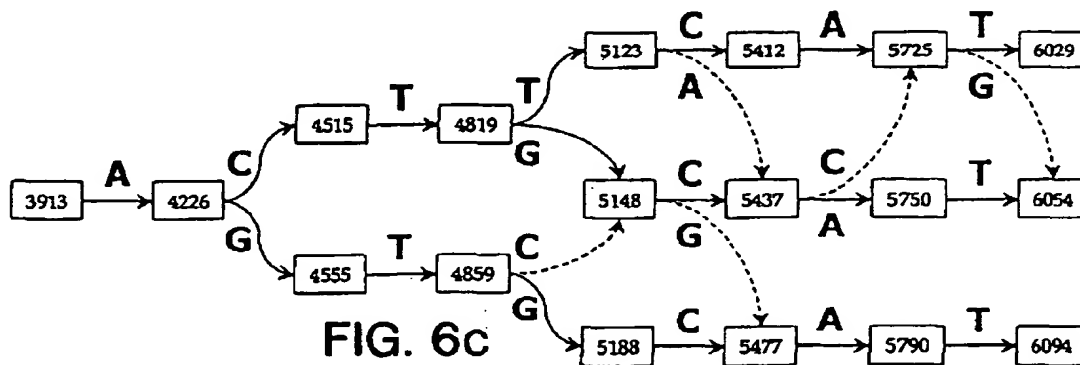


FIG. 6c

ACTGCAT actgccg actgccct actggat acttaat acttacg acttact
 acttcag ACTTCAT agtccat agtcccg agtccct agtcgat AGTGCAT

FIG. 6d

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Variant #1: AACTGCA ^T			Variant #2: AACTTCAT			Variant #3: AAGTGCAT		
Primer	Extension Products	Mass (Da)	Primer	Extension Products	Mass (Da)	Primer	Extension Products	Mass (Da)
3527 Da	nnnnnnnt	5985	3527 Da	nnnnnnnt	5985	3527 Da	nnnnnnnt	5985
	nnnnnnna	5664		nnnnnnna	5664		nnnnnnna	5664
	nnnnnnc	5350		nnnnnnc	5350		nnnnnnc	5350
	nnnnng	5040		nnnnnt	5035*		nnnnng	5040
	nnntc	4745		nnntc	4745		nnntc	4745
	nnnc	4420		nnnc	4420		nnng	4464*
	na	4134		na	4134		na	4134
	a	3824		a	3824		a	3824

FIG. 7a

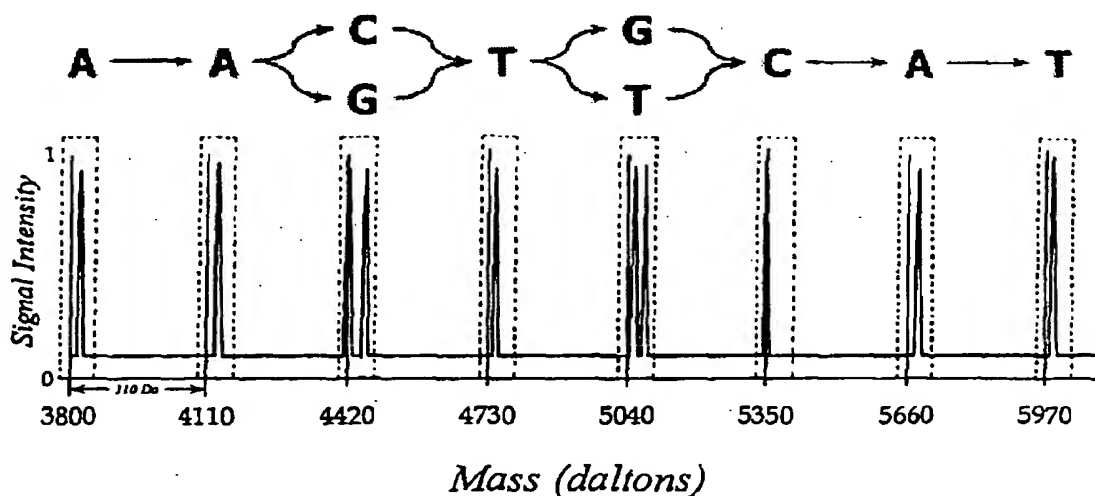


FIG. 7b

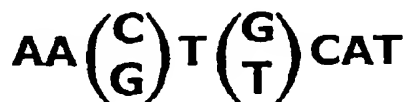


FIG. 7c

AACTGCAT
 AACTTCAT
 AAGTGCAT
 aagttcat

FIG. 7d

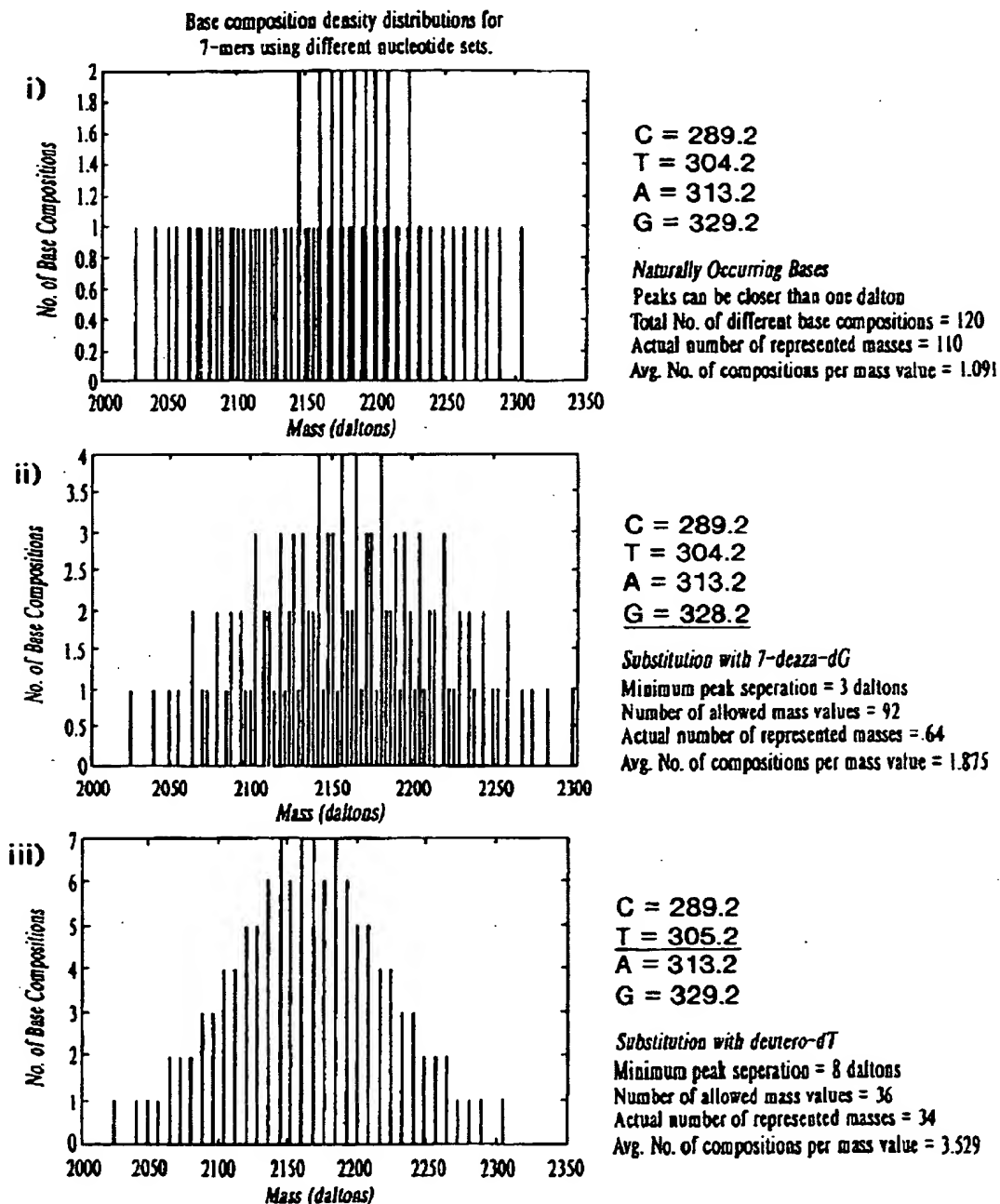


FIG. 8